

## MEASUREMENT/TECHNICAL REPORT

**APPLICANT:** TECO Information System Co., Ltd.

**MODEL NO.: JC-1738VMA-(TW)**

FCC ID: E80TE772

This report concerns ( check one ) : **Original Grant** \_\_\_\_\_  
**Class II Change**

Equipment type: Monitor

Deferred grant requested per 47CFR 0.457(d)(1)(ii)?

Yes        No       ✓       If yes, defer until: (date)

We, the undersigned, agree to notify the Commission by (date) \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ of the intended date of announcement of the product so that the grant can be issued on that date.

## Transiyion Rules Request per 15.37?

Yes \_\_\_\_\_ No

If no, assumed Part 15, Subpart B for unintentional radiator the new 47 CFR (10-1-90 Edition) provision.

## **Report Prepared**

**by Testing House :** Neutron Engineering Inc.

**for Company Name:** TECO Information System Co., Ltd

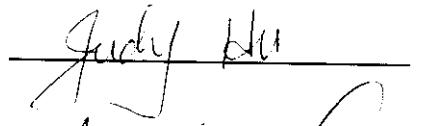
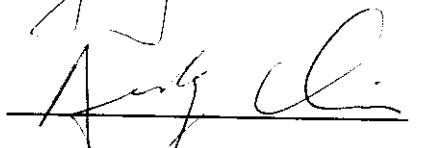
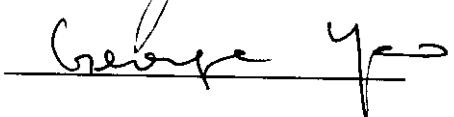
**Address:** 1568 Chung Shan Rd., Sec. 1, Chin Hwu Village,  
Kuang-In, Taoyuan Hsien. Taiwan, R.O.C.

**Applicant Signature :**

Yangman Jang Fancy  
Yangman Jang / Project Manager

**CERTIFICATION****We hereby certify that:**

The test data , data evaluation , test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (1992) / CISPR 22 (1996) and the energy emitted by the sample EUT tested as described in this report is in compliance with CLASS B conducted and radiated emission limits of FCC Rules Part 15 , Subpart B / CISPR 22 (1996)

**Prepared by :** Judy Hu  
  
**Reviewed by :** Andy Chiu**Approved by :** George Yao**Issued Date :** Oct. 06, 1998**Report No. :** NEI-FCCB-98174**Company Stamp :** \_\_\_\_\_

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## Table of Contents

<b>1. General Information</b> .....	
1-1 Product Description.....	4
1-2 Related Submittal(s)/Grant(s).....	4
1-3 Tested System Details.....	5
1-4 Test Methodology.....	6
1-5 Test Facility.....	6
<b>2. Product Labelling</b> .....	
Figure 2-1 FCC ID Label.....	7
Figure 2-2 Location of Label on EUT.....	7
<b>3. System Test Configuration</b> .....	
3-1 Justification.....	8
3-2 EUT Exercise Software.....	8
3-3 Special Accessories.....	9
3-4 Equipment Modifications.....	9
3-5 Configuration of Tested System.....	10
Figure 3-1 Configuration of Tested System.....	12
<b>4. Block Diagram(s)</b> .....	13
<b>5. Conducted and Radiated Measurement Photos</b> .....	
Figure 5-1 Conducted Measurement Photos.....	14
Figure 5-2 Radiated Emission Photos.....	15
<b>6. Conducted Emission Data</b> .....	16
<b>7. Radiated Emission Data</b> .....	
7-1 Radiated Emission Data.....	18
7-2 Field Strength Calculation.....	21
7-3 Correction Factor Table VS Frequency.....	22
<b>8. Attachment</b>	
8-1 Photos of Tested EUT .....	23
8-2 User's Manual .....	24

## 1. GENERAL INFORMATION

## 1-1. Product Description

The TECO Information System Co., Ltd. Model: JC-1738VMA-(TW) ( referred to as the EUT in this report) is a VGA, and VESA compatible multi-sync. color monitor featuring a maximum pixel resolution of 1280x1024.

The EUT provides a permanently attached video interface cable, approx. 1.5 meter, incorporated with a ferrite core in addition to a detachable type power cord.

Following described the summarized feature of EUT:

A more detailed and/or technical descriptions of EUT is attached in attachment-A

**1-2. Related Submittal(s) / Grant (s)**

This submittal is intended for filing a Class II Permissive Change for the certified equipment FCC ID : E8OTE772(date of grant Sep 23, 1998)

Comparing with current model, the following change are initiated into the modified model:

Comparing with current model, the following change are initiated into the modified model.

1. Electrical Circuitry – Power Supply  
Deleting the Power Factor Correction (PFC) circuit for cost down purpose.
2. PWB  
Partial printed wiring Board routing (layout) ,location of L901, C902, R901, R902, FL902, D901 ~ D904, D90, PTH901, NTH901, BD901 and BD903, modified due to the change(s) of PEC circuit

The charges will be made only in those units produced after the charges are authorized. Also, the product will keep two versions in market.

**1-3. Tested System Details**

The FCC IDs for all equipments, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

Model No.	FCC ID	Equipment	Cable
JC-1738VMA-(TW) <sup>(1)</sup>	E8OTE772	MONITOR	Shielded Video Cable. <sup>(2)</sup> Shielded Power Cord
PRESARIO7222	EJH3326	PC	Shielded Power Cord.
Series.2 -7S	DZL6QBS2	Mouse	Shielded Parallel I/F Cable. Unshielded Power Cord.
HP2225C+	DSI6XU2225	Printer	Shielded Serial I/F Cable. Unshielded Power Cord.
AT-1200CK	E2O5OV1200CK	Modem	Shielded Data Cable
FDA-102A	F4Z4K3FDA102A	Keyboard	Shielded Data Cable
S3Trio64+	ICUVGA-GW503B	VGA Card	Add-On Card Cableless

Notes:

(1) EUT submitted for grant.

(2) Monitor's attached video cable with ferrite core.

**1-4. Test Methodology**

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (1992)/CISPR 22 (1996). Radiated testing was performed at an antenna to EUT distance 10 meters.

**1-5. Test Facility**

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of No. 5, All 2, Lane 220, Kang Lo St., Nei Hwu, Taipei, Taiwan, R.O.C. of NEUTRON ENGINEERING INC. This site has been fully described in report dated Feb.4,1998 Submitted to your office, and accepted in a letter dated March 28, 1998 (31040/SIT-1300F2).

### **3. System Test Configuration**

#### **3-1. Justification**

The system was configured for testing in a typical fashion (as a customer would normally use it). The EUT was connected to support equipment-personal computer. Peripherals of PC, such as printer, modem, mouse and keyboard as well as the VGA add-on card were contained in this system in order to comply with the ANSI C63.4 standard requirement. The system was tested in the highest pixel resolution mode of 1280x1024 Hsync. 64KHz, and the highest horizontal sweep rate mode of 1024 x 768, Hsync. 69KHz. Both modes were investigated and were used to collect the included data.

The second serial port(COM2) was tested in addition to the first port (COM1) ANSI C63.4, second paragraph. The simultaneous testing of this identical port did not take the system out of compliance. Therefore, the final qualification testing was completed with COM1 port connected by a stand along modem.

#### **3-2. EUT Exercise Software**

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software, contained on a 3-1/2 inch disk, was inserted into driver A and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is:

1. Read(write) from(to)the disk desk driver.
2. Send “ H ” pattern to the parallel port device (Printer).
3. Send “ H ” pattern to the video port device (Monitor).
4. Send “ H ” pattern to the serial port device (Modem).
5. Repeated from 1 to 4 continuously.

As the Keyboard and mouse are strictly input devices, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.

**3-3. Special Accessories**

N/A

**3-4. Equipment Modifications**

In order to achieve in compliance with Class B levels, the following change(s) were made by NEUTRON test house during the compliance testing:

Please refer to the next page as the modification described and cross reference of photos of tested EUT.

The above modifications will be implemented in all product models of this equipment.

**Applicant Signature :****Date :**

Oct. 06, 1998

**Type/Printed Name :****Position :**

Project Manager

**TECO Image Systems Co., Ltd.**

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Kuang-In, Taoyuan Hsien, Taiwan, R.O.C.  
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**Modification Report**

Company:

Model No.: JC-1738VMA-(TW)

Page 1 of 1

FCC ID: E8OTE772

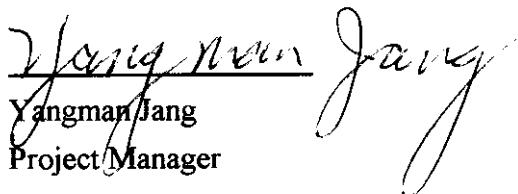
Date: Oct. 06 1998

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- A. Add a trorid core on the video cable to close the connector.
- B. Add a trorid core on the G1 cable.
- C. Add a trorid core on the data cable.
- D. Add a trorid core on the data cable
- E. Add a trorid core on the data cable.

All the above modification will be implemented and relayout in the mass production to meet the FCC Class B requirements.

TECO Information System Co., Ltd.

  
Yangman Jang  
Project Manager

### 3.5 Configuration of Tested System

The configuration of tested system is described as the block diagram shown in next page Figure 3.1 and details information of I/O cable and power cord connection are tabulated as Table A and B. The monitor is powered from a floor mounted receptacle ( referred to as the wall outlet in the previous described )was tested.

**TABLE A - Test Equipment**

Item	Equipment	Mfr.	Model/Type No.	I/O Port	FCC ID	Remark
E-1	MONITOR	TECO	JC-1738VMA-(TW)	VGA Port	E8OTE772	EUT
E-2	PC	COMPAQ	PRESARIO7222		EJH3326	
E-3	Mouse	Logitech	Series.2 -7S	PS/2 Port	DZL6QBS2	
E-4	Printer	HP	HP2225C+	Print Port	DSI6XU2225	
E-5	Modem	Datatronics	AT-1200CK	Com Port	E2O5OV1200CK	
E-6	Keyboard	Forward	FDA-102A	K/B Port	F4Z4K3FDA102A	
E-7	VGA Card	GAINWARD	S3Trio64+	Card Slot	ICUVGA-GW503B	

**Remark:**

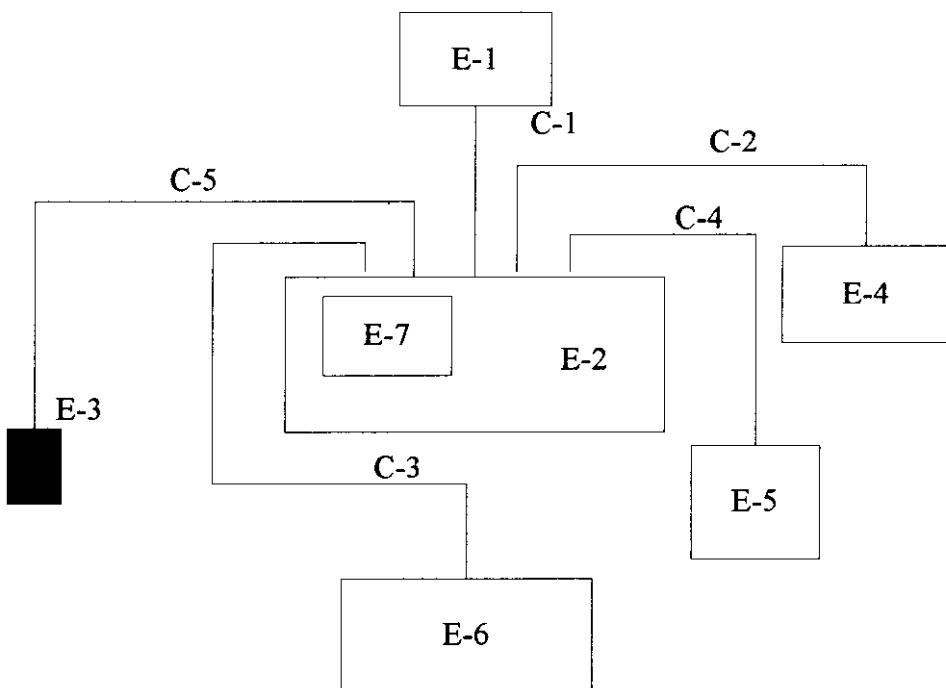
- (1) Unless otherwise denoted as EUT in 「Remark」 column , device(s) used in tested system is a support equipment.
- (2) Unless otherwise marked as ※ in 「Remark」 column, Neutron consigns the supporting equipment(s) to the tested system.

**Table B. - Informations Cable Information**

Item	I/O Cable	Device Connected	Shielded	Ferrite	Detachable/Permanently	Note
C-1	Video Cable	PC-Monitor	Yes	Yes	Permanently attached on Monitor	※
C-2	Centronics Cable	PC-Printer	Yes	No	Part of Printer, Detachable	
C-3	Keyboard Cable	PC-Keyboard	Yes	No	Permanently attached on KB	
C-4	RS-232C Cable	PC-Modem	Yes	No	Part of Modem, Detachable	
C-5	Mouse Cable	PC-Mouse	Yes	No	Permanently attached on Mouse	

Note:

(1) Unless otherwise marked as ※ in 「Remark」 column, Neutron consigns the supporting equipment(s) to the tested system.

**Figure 3.1 Configuration of Tested System**

6.1 The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

**Test Mode : 1280 × 1024/64KHz/60Hz**

**Judgement:** Passed by **-10.20 dB** in mode of **Line terminal 2.49 MHz**

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Safe (dBuV)	Margins (QP)
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.19	L	43.73	*	63.99	53.99	-20.26	(QP)
2.49	L	45.80	32.50	56.00	46.00	-10.20	(QP)
2.55	L	44.37	31.20	56.00	46.00	-11.63	(QP)
4.53	L	41.51	*	56.00	46.00	-14.49	(QP)
4.90	L	41.16	*	56.00	46.00	-14.84	(QP)
0.19	N	43.94	*	64.04	54.04	-20.10	(QP)
4.14	N	40.20	*	56.00	46.00	-15.80	(QP)
4.53	N	40.68	*	56.00	46.00	-15.32	(QP)
4.98	N	42.50	*	56.00	46.00	-13.50	(QP)
6.06	N	37.68	*	60.00	50.00	-22.32	(QP)

**Remark :**

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz ; SPA setting in RBW=100KHz,VBW =100KHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range from 150KHz to 30MHz.

Review : Amrit Singh Test Personnel. : Riker VLSI Date: Aug. 06, 1998

## 6. Conducted Emission Datas

**6.1** The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

**Test Mode :  $1024 \times 768/69\text{KHz}/85\text{Hz}$**

**Judgement:** Passed by **-16.88 dB** in mode of **Line terminal 22.18 MHz**

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Safe Margins	
		QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
0.20	L	40.85	*	63.45	53.45	-22.60	(QP)
0.28	L	38.14	*	60.94	50.94	-22.80	(QP)
5.01	L	38.67	*	60.00	50.00	-21.33	(QP)
7.18	L	40.96	*	60.00	50.00	-19.04	(QP)
22.18	L	43.12	*	60.00	50.00	-16.88	(QP)
0.15	N	44.47	*	66.00	56.00	-21.53	(QP)
0.21	N	41.54	*	63.29	53.29	-21.75	(QP)
0.28	N	37.46	*	60.94	50.94	-23.48	(QP)
7.18	N	39.24	*	60.00	50.00	-20.76	(QP)
22.18	N	40.96	*	60.00	50.00	-19.04	(QP)

### Remark :

- (1) Reading inwhich marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz ; SPA setting in RBW=100KHz,VBW =100KHz, Swp. Time = 0.3 sec./MHz 。 Reading inwhich marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz 。
- (2) All readings are QP Mode value unless otherwise stated AVG in colum of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform 。In this case, a " \* " marked in AVG Mode colum of Interference Voltage Measured 。
- (3) Measuring frequency range from 150KHz to 30MHz 。

Review : Andy Chen Test Personnel : Riker Hsu Date: July 24, 1998

**7. Radiated Emission Data**

7.1 The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, as well as the limit. Explanation of the Correction Factor is given in paragraph 7.2.

**Test Mode : 1280 × 1024/64KHz/60Hz****Judgement: Passed by -5.06 dB in polarity of Vertical 47.3 MHz**

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Safe Margins (dBuV/m)	Note
47.30	V	12.90	12.04	24.94	30.00	-	5.06
47.30	H	12.80	12.04	24.84	30.00	-	5.16
61.30	V	14.20	9.64	23.84	30.00	-	6.16
127.60	H	11.10	13.17	24.27	30.00	-	5.73
129.80	V	10.80	13.01	23.81	30.00	-	6.19
142.00	H	12.00	12.32	24.32	30.00	-	5.68
212.00	H	11.50	12.02	23.52	30.00	-	6.48
218.40	V	9.60	11.81	21.41	30.00	-	8.59
254.40	H	16.50	13.96	30.46	37.00	-	6.54
263.20	V	12.00	14.49	26.49	37.00	-	10.51
316.80	V	12.50	16.23	28.73	37.00	-	8.27
368.00	H	12.10	17.25	29.35	37.00	-	7.65

**Remark :**

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of "Note". Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

Review : Andy Liu Test Personnel : Riker Hsu Date: July 31, 1998

## 7. Radiated Emission Data

7.1 The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, as well as the limit. Explanation of the Correction Factor is given in paragraph 7.2.

**Test Mode : 1280×768/69KHz/85Hz**

**Judgement:** Passed by **-3.05 dB** in polarity of **Horizon 125.0 MHz**

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Safe Margins (dBuV/m)	Note
31.20	H	14.50	11.18	25.68	30.00	-	4.32
41.90	V	13.60	11.71	25.31	30.00	-	4.69
125.00	H	13.60	13.35	26.95	30.00	-	3.05
127.60	V	11.30	13.17	24.47	30.00	-	5.53
143.70	H	13.90	12.42	26.32	30.00	-	3.68
150.70	V	13.40	13.08	26.48	30.00	-	3.52
216.76	V	7.10	11.86	18.96	30.00	-	11.04
376.80	V	12.60	17.52	30.12	37.00	-	6.88
424.80	V	13.40	18.44	31.84	37.00	-	5.16
440.80	H	10.80	19.05	29.85	37.00	-	7.15
478.40	H	9.20	20.48	29.68	37.00	-	7.32
485.60	H	9.90	20.75	30.65	37.00	-	6.35

### Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of "Note". Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

Review : Andy Lee Test Personnel : Rike Hsu Date: July 28, 1998

## 7. Radiated Emission Data

7.1 The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, as well as the limit. Explanation of the Correction Factor is given in paragraph 7.2.

**Test Mode : 1280×768/69KHz/85Hz**

**Judgement:** Passed by **-8.10 dB** in polarity of **Vertical 1310.00 MHz**

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Safe Margins (dBuV/m)	Note
1068.00	V	41.80	- 2.63	39.17	54.00	-14.83	
1134.00	H	36.90	0.45	36.45	54.00	-17.55	
1178.00	V	43.30	- 1.92	41.38	54.00	-12.62	
1200.00	V	43.20	- 2.30	40.90	54.00	-13.10	
1222.00	H	39.70	- 1.48	38.22	54.00	-15.78	
1244.00	H	40.00	- 0.84	39.16	54.00	-14.84	
1244.00	V	43.30	- 0.84	42.46	54.00	-11.54	
1310.00	H	38.90	- 0.10	38.80	54.00	-15.20	
1310.00	V	46.00	- 0.10	45.90	54.00	- 8.10	

### Remark :

- (1) Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW=1 MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz.
- (2) Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz.
- (3) Measuring frequency range from 1000MHz to 2000MHz.
- (4) All readings are Peak unless otherwise stated AV in column of『Note』. \* marked denotes that the Peak reading compliance with the Average Limits in FCC 15.109 and then the AV Mode measurement didn't perform.
- (5) If the peak scan value lower limit more than 20dB, then this signal data does not show in table

Review : Andy Wei Test Personnel : Ziker Hsu Date: July 28, 1998

## 7-2. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\mathbf{FS = RA + AF + CL - AG}$$

Where **FS = Field Strength**

**RA = Receiver Amplitude**

**AF = Antenna Factor (1)**

**CL = Cable Attenuation Factor (1)**

**AG = Amplifier Gain (1) (2)**

**Remark :**

(1) The Correction Factor = AF + CL - AG, as shown in the data tables' Correction Factor column.

(2) AG is not available for Neutron's Open Site Facility

**Example of Calculation:**

Assume a Receiver Reading of 23.7 dBuV is obtained with an Antenna Factor of 7.2 dB and a Cable Factor of 1.1 dB. Then:

1. The Correction Factor will be calculated by

$$\mathbf{Correction Factor = AF + CL - AG = 7.2 + 1.1 - 0 = 8.3 \text{ (dB)}}$$

as shown in the data tables' Correction Factor column.

2. The Field Strength will be calculated by

$$\mathbf{FS = RA + Correction Factor = 23.7 + 8.3 = 32 \text{ (dBuV/m).}}$$

FS is the value shown in the data tables' Corrected Reading column and RA is the value shown in

the data tables' Receiver Reading column. The 32 dBuV/m value was mathematically converted to its corresponding level in uV/m as:

$$\mathbf{Log^{-1} [(32.0 \text{ dBuV/m})/20] = 39.8 \text{ (uV/m)}}$$

**7-3. Correction Factor VS Frequency**

<b>Frequency (MHz)</b>	<b>Antenna Factor (dB)</b>	<b>Cable Loss (dB)</b>
30.00	11.10	0.20
35.00	10.80	0.00
40.00	11.20	0.40
45.00	11.50	0.40
50.00	11.30	0.90
55.00	10.50	0.00
60.00	9.90	0.00
65.00	8.70	0.20
70.00	7.60	0.00
75.00	6.40	0.50
80.00	6.10	0.10
85.00	7.00	0.80
90.00	8.00	0.30
95.00	10.00	0.40
100.00	11.20	0.60
110.00	12.60	0.60
120.00	13.00	0.60
130.00	12.50	0.50
140.00	12.00	0.20
150.00	12.00	1.00
160.00	13.20	1.20
170.00	14.80	1.60
180.00	16.30	1.90
190.00	17.00	1.90
200.00	17.30	1.40
225.00	10.50	1.10
250.00	11.70	2.00
275.00	12.80	2.40
300.00	14.50	2.40
325.00	14.00	1.90
350.00	14.20	2.40
375.00	14.60	2.90
400.00	15.10	2.70
450.00	16.20	3.20
500.00	17.60	3.70
550.00	17.80	3.90
600.00	18.40	4.30
650.00	19.50	4.00
700.00	20.80	4.10
750.00	20.50	5.30
800.00	21.10	5.90
850.00	22.40	5.80
900.00	23.50	5.50
950.00	24.00	6.30
1000.00	24.80	5.20

**8. Photos of Tested EUT:**

The following photos are attached:

- Photo # 1. Front View
- Photo # 2. Rear View
- Photo # 3. Unit Partially Disassembled
- Photo # 4. Unit Partially Disassembled
- Photo # 5. Unit Partially Disassembled
- Photo # 6. Unit Partially Disassembled
- Photo # 7. Unit Partially Disassembled
- Photo # 8. Unit Partially Disassembled
- Photo # 9. Unit Partially Disassembled
- Photo # 10. Unit Partially Disassembled